## Minutes from OpenPICs WP 4 meeting 10-07-2017

Present: Longfei, Rob, Steven, Robert

## Discussion/action points

Nr.	Description	Responsible
1.	Al-MQW	
	• The design is delayed by another 2 weeks. It would be helpful to discuss with	Weiming,
	Peter (Smart) to see if their model can be used to get an initial numbers of	
	the composition and strain.	
	The Al-Q will be calibrated in both Nanolab and Smart reactors.	Longfei
2.	Zn diffusion tests	
	• 5 samples have been shipped to UK for SIMS measurement.	Rene
	Get an empirical model based on more data points with MPW layerstack.	
	Quick diffusion test on a SiO2 mask covered sample.	
	Test with mask opening. Longfei will follow up on the fabrication.	Longfei
3.	BCB planarization	
	Adhesion test of metal on BCB: tape test failed due to the poor adhesion of	Tjibbe
	BCB to native oxide on silicon (less than that of metal to BCB). Next test with	
	BCB on silicon oxide will be done soon.	
	Planarization test has been done on the sample from Smart. Tencor is back	
	from supplier, needs to be set up and calibrated.	
	Lithography parameters have to be re-optimized for BCB.	
4.	Stepper process	
	Experiments ongoing to find the warm-up time required for a reproducible	Robert
	process with the stepper.	
	Test with MaN resist: we need some initial results in July, and samples to be	
	measured with X-SEM by an internship student in August.	
	Overlay test using Scanner patterned samples is planned with Jeroen.	
5.	Etching process	5 :
	• The new CH4-H2 recipe (optimized for ~3 degree side-wall angle in Smart's	Rui
	ICP) will be transferred to Nanolab after a few more fine-tuning.	Longfo:
	Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the H2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the R2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the R2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the R2 flow      Regarding the Cl2-CH4-H2 recipe, Oxford suggested to increase the R2 flow      R2 flow suggested the R2 flow suggested to increase	Longfei
6	and RF power. Longfei will start a new batch of wafers this week.	
6.	Planning	
	Upcoming due dates for milestones:  M.6.1 (and of August) Process developed for A7 and MaN based lithography.	Robert
	M 6.1 (end of August) Process developed for AZ and MaN based lithography.  M 4.1 (end of September) BCB insulation and metal plating tested: ready for	Tjibbe
	joint MPW validation	rjibbe
	A project review meeting (first-year) has been scheduled on 29 August.	Weiming
	More details of the agenda will follow.	
	<ul> <li>Longfei will leave as of September 1. We are contacting people to take over</li> </ul>	Longfei
	this part of work. He will write documents for the hand-over.	
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Next meeting: 13:30-15:00, 24-7-2017, Flux 10.177